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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/098,604	03/16/2002	Michael Seul	4363-4010US3 7665		
7590 04/22/2005		•	EXAMINER		
Eric P. Mirabel			KIM, PETER B		
Bioarray Solutions					
35 Technology Drive			ART UNIT	PAPER NUMBER	
Warren, NJ 07059			2851		
			DATE MAILED: 04/22/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No).	Applicant(s)			
Office Action Summary		10/098,604		SEUL ET AL.			
		Examiner		Art Unit	-		
		Peter B. Kim		2851			
	The MAILING DATE of this communication a	ppears on the cov	er sheet with the c	orrespondence ad	ldress		
Period fo	or Reply						
THE - Exter after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perion to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, horeply within the statutory mand will apply and will expirute, cause the application	wever, may a reply be tim ninimum of thirty (30) days e SIX (6) MONTHS from to become ABANDONEI	nely filed s will be considered timel the mailing date of this c D (35 U.S.C. § 133).			
Status							
1)	Responsive to communication(s) filed on 18	January 2005					
-	This action is FINAL . 2b) ☐ This action is non-final.						
′=	<u> </u>						
.—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠	4) ⊠ Claim(s) <u>1</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1</u> is/are rejected.						
7)∐ 8)☐	Claim(s) is/are objected to. Claim(s) are subject to restriction and	l/or election requir	ement.				
Applicati	ion Papers						
	The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a distribution of the control	ccepted or b) o	•				
11)	Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the latest and the same of the same	ection is required if t	the drawing(s) is obj	ected to. See 37 C	• •		
Priority :	under 35 U.S.C. § 119						
12)⊠	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the prapplication from the International Bure	ents have been recents have been recents lave been recents l	ceived. ceived in Application have been receive	on No	Stage		
* 5	See the attached detailed Office action for a li	st of the certified	copies not receive	d.			
 Attachmen		are a second sec		** *			
	e of References Cited (PTO-892)	4) F	Interview Summary	(PTO-413)			
2) Notice (3) Information	re of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 or No(s)/Mail Date 82003, 112004, //32005, //82005		Paper No(s)/Mail Da		O-152)		

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DETAILED ACTION

Applicant's arguments filed on Jan. 18, 2005 have been fully considered.

Specification

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The abstract of the disclosure is objected to because it contains more than 150 words.

Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jain et al. (Jain) (6,312,134) in view of Nakagawa et al. (Nakagawa) (5,528,392).

Jain discloses an apparatus for programmably generating an illumination pattern superimposed onto a substrate, said illumination pattern having a predetermined arrangement of light and dark zones, said apparatus comprising: an illumination source (1); a reconfigurable

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mask (3) composed of an array of pixels comprising a digital micromirror device, said pixels being actively controllable and directly addressable by means of a computer-controlled circuit and computer interface, said computer-controlled circuit being operated using a software program providing temporal control of the intensity of illumination emanating from each pixel so as to form the illumination pattern comprising the predetermined arrangement of light and dark zones; and a projection system (4) suitable for imaging the reconfigurable mask onto the substrate (5) by permanently altering a physical chemical property of the substrate surface in accordance with the pattern. Jain also discloses controlling pixels to adjust levels of transmissivity or reflectivity (col. 15). However, Jain does not disclose substrate displaying lowered impedance in illuminated region and upon application of an AC voltage, the electric field in the illuminated region is greater in the illuminated region and imaging and recording the superimposed image of the illumination pattern. Nakagawa discloses in col. 10, lines 52-62, substrate with lowered impedance in the illuminated region and greater electric field in the illuminated region. Nakagawa also discloses controller (53) and display (57) for imaging and recording the pattern. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide the substrate of Nakagawa and the controller and display of Nakagawa to the invention of Jain in order to form images whose tone corresponds to the density of the image as taught by Nakagawa in col. 2, lines 39-43.

Remarks

According to preliminary amendment filed on Mar. 16, 2002, claims 2-31 are cancelled, and only claim 1 is pending.

Conclusion

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter B. Kim whose telephone number is (571) 272-2120. The examiner can normally be reached on 8:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Peter B. Kim

Primary Examiner
Art Unit 2851

April 13, 2005